The Egg Drop Experiment

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The scientific method:

Question: Will our egg survive the egg drop?

Observation: We used a model egg to see how big to make the bed, and since an egg is delicate, we used cotton balls and tape to secure our egg. The weather conditions at the time were partly sunny with a high of 70 degrees. There was also a wind speed of 6 mph.

Hypothesis: Kori and I predict that our egg will survive the egg drop.

Experiment: First, we got a size 13 shoebox and glued our big Popsicle sticks to the middle of the floor. Next, we bundled 4 stacks of 12 Popsicle sticks and glued them down. After that, we placed the model egg to see if it would fit. Next, we placed one piece of bubble wrap at the bottom of the bed and 4 cotton balls at each side of the egg. Then when it came time to drop the egg we replaced the model egg with a real egg. After that, we placed a piece of bubble wrap on top of the canopy bed and taped it down. Finally we blew up the balloons, tied them to the shoebox, put on the lid and the egg was finally ready to attempt the drop!

Variables:

1. The control variable and The Independent variable: We all dropped our egg from the same height, on the same day and we all dropped our eggs when it was one certain wind speed.
2. Dependent variable: Everyone used different amounts of materials and have different structures to their experiments.

Materials:

1. 5 big Popsicle sticks

2. 48 little Popsicle sticks

3. 2 pieces of bubble wrap

4. 7 cotton balls

5. An egg

6. A size 13 shoe box

7. 2 balloons

8. Lots of tape

9. String

10. A hot glue gun

Analyze Results:

1. What worked: To save our egg the most support was probably from the cotton balls, the bubble wrap and the support from the bed.

Conclusion: Our egg survived the drop!

Communicate Results: If I were to do this experiment over again I would switch from the balloons to a plastic bag.